The present invention can solve various problems of the number transfer between the service provider in a very easy and simple manner, which include problems of astronomical expense for service unification between networks, software and hardware upgrade. Although the present invention may look rather complicated, the present invention allows charge of a small amount of fees to a user. Further, the complexity passing through the service networks before recognizing the masked digits may be relieved based on a principle that a corresponding service provider number is used when a new subscriber subscribes.

It is not true that most of the subscribers do the number transfer. Further, it is not difficult to implement the present invention, only if, when the user's number starts with 011, 016, 017, 018, or 019, the information of change is updated for the corresponding provider network. That is, when a subscriber who has newly subscribed 011-1234-5678 changes to the 016 provider, the number becomes 15-016-1234-5678 and information about such change is reported to the 011 provider. Then, the 011 provider stores the information about the change. Further, when the subscriber changes to the 019 provider, the number "011-1234-5678" is changed to "18-019-1234-5678" and information about such change is reported to the 011 provider. Then, the 011 provider updates the information about the change. Therefore, it is possible to implement the invention in a simple manner.

3. CLAIMS

○ Very important Item which determines the invention and its scope (*omissible when the description part is unnecessary)

- mention only characteristic matters which are desired to be protected by an exclusive right

- mention novel elements necessary to have the same effect as the characteristics of the invention

[Examples]

1. Superordinate Concept (Independent Claim)

- ◯◯ device (circuit) comprising A for performing an XXX function and B for performing a YYY

function.

- ◯◯ method comprising an A step and a B step.

2. Subordinate Concept (Dependent Claim)

- The device (circuit) of claim 1 (citing the independent claim), wherein the detection unit (means)

comprises ... for ...., and .... for ......

- The method of claim 1 (citing the independent claim), wherein the connection in step A is .....

3. Superordinate Concept (Independent Claim)

 — .— — — — —

 — — — — — —

1. Super-ordinate Concept (Independent Claim)

- An identification number system which represents the service provider change

- An algorithm having an inner number for reporting the change between service

providers, stored in the NAM of the terminal

- An algorithm for changing the internal number for reporting the service provider

change to the user's phone number

- A system and an algorithm for changing checking user change for each service

provider, thereby feedbacking the change data

2. Sub-ordinate Concept (Dependent Claim)

- A method for adding identification number to existing number structure

- A function for sending changed number of a subscriber to a former service provider, thereby updating the number

- An algorithm in which a non-changed identification number of a subscriber employs 00 or similar method, so that there is no influence to the use by the existing subscribers

4. Drawings

1. A view which can best express the characteristics of the invention shall be selected as a representative drawing, and the same reference numerals as those in the detailed description of the invention shall be marked in the drawings

2. Brief description of the drawings shall be attached under the drawings (* omissible when the description is unnecessary)

A. DRAWINGS OF THE PRIOR ART

B. DRAWINGS OF THE INVENTION

1) subscriber with 00-011-723-9553 changes the service provider to the 019 provider

(the 019 provider do the management with the number "18-019-723-9553")

store 18-019-723-9553 in NAM

call to 00-016-9530-6398

consider initial 016 subscriber & first send data to the subscriber

check module of 016 provider

existing subscriber

confirm 00-016-9530-6398 existing subscriber

connect to subscriber & transmit data together with caller's data

when connected to 016-9530-6398, calculate the caller's data, 18-019-723-9553, & display it as 011-723-9553

18-019-723-9553 (011-723-9553)

changed 019 provider of the subscriber

transmission of change data

change-registered subscriber

retransmit information of the change 11-017-9530-6398 among the changed list

classify provider based on changed data & transmit data to 017

017 provider 11-017-9530-6398 data reception
directly connected to the subscriber because it is not 00-****
when connected to 016-9530-6398, calculate the caller's data, 18-019-723-9553, & display it as 011-723-9553